

SUMMARY

Component	Cost (w/o shipping)	Weight (lb)
Base/Frame	\$464	133
Plow	\$237	13
Conveyor	\$632	35
Basket	\$56	3
Motor/RC	\$400-\$700	25-50
TOTAL:	\$1,789-2,089 (+shipping)	---

Fulfillment of user needs:

Cost: GOOD

Under-budget with extra (prob. need to purchase on-shore conveyor)

Weight: MEDIUM

Heaviest component 133 lb (goal <100, could be alleviated w/ trailer, good grips)

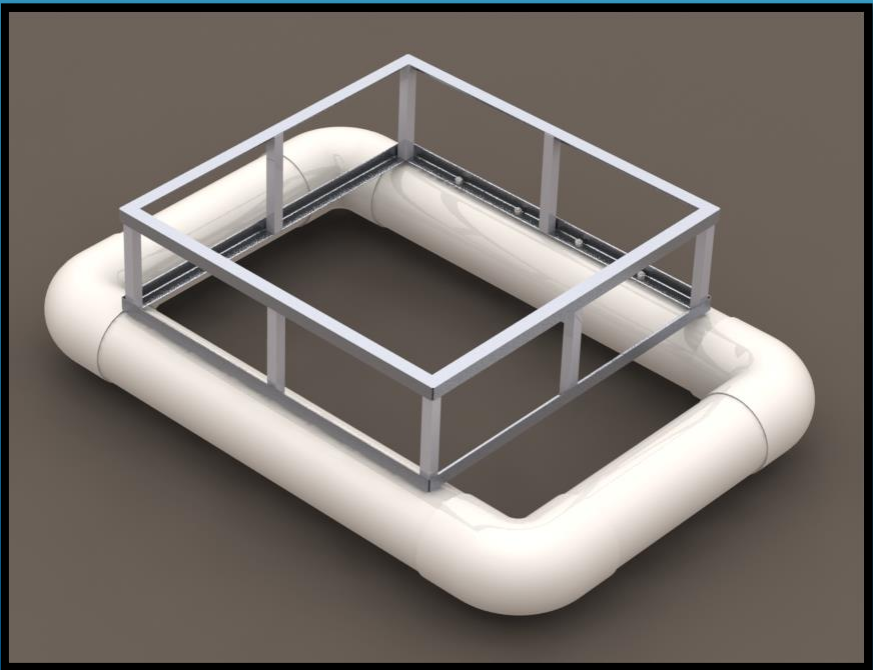
Capacity: GOOD

4-6 ft plow span, able to hold up to 18 cubic ft azolla

FRAME

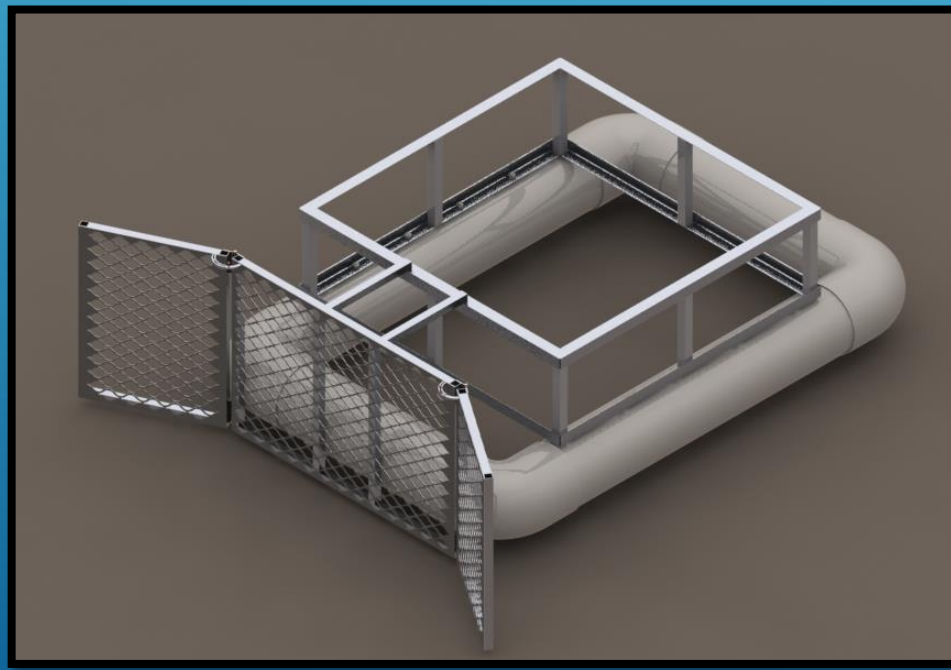
Item	Cost =(w/o shipping)	Weight (lb)	Supplier
8” PVC pipes	\$339	79	PVC pipe supplies
PVC elbows		36	PVC pipe supplies
Aluminum L’s	\$68	12	Online Metals
Aluminum sqr.	\$38	5	Online Metals
SS Bolts	~\$5	<1	McMasterCarr
SS Nuts	~\$3	<1	McMasterCarr
Sealing Washers	~\$1	~0	McMasterCarr
TOTALS:	\$464	~133	---

Note: w/ shipping PVC/Elbows were \$519, Frame was \$177.

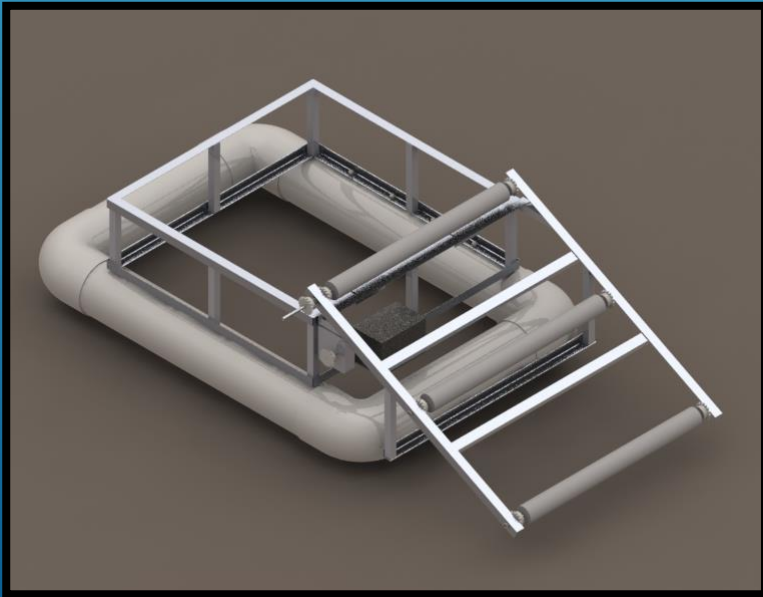


PLOW

Item	Cost =(w/o shipping)	Weight (lb)	Supplier
Aluminum Tubing	\$164.89	9	Moscow Building Supply
Mesh/Screen	\$18.99	2	Moscow Building Supply
Grommets	\$7.99	~0	Moscow Building Supply
Duct Tape	\$4.5	~0	Moscow Building Supply
Zipe Ties	\$3.69	~0	Moscow Building Supply
Hinges	\$37.32	2	Whole Sale Marine
TOTALS:	\$237	13	



CONVEYOR

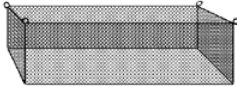


Other option: Hoffmeyer – awaiting quote

Item	Cost =(w/o shipping)	Weight (lb)	Supplier
4' Aluminum L	\$51	10	Online Metals
Acetal chain	\$216	3	McMasterCarr
Belt Sprockets	\$92	1.5	McMasterCarr
Mesh	\$40	2	Sailrite
Idle Rods	\$17	2	Online Metals
Drive Rod	\$9	<1	Online Metals
Foam Rollers	\$24	<1	Foambymail
Bearings	\$20	<1	McMasterCarr
1' Aluminum L	\$3	<1	Online Metals
1' Aluminum tube	\$10	<1	Online Metals
2' Aluminum tube	\$18	3	Online Metals
Motor Shaft Sprocket	\$15	<1	McMasterCarr
Drive Rod Sprocket	\$15	<1	McMasterCarr
DC Motor	\$56	3	Zoro
Battery	\$17	3.5	Walmart
WP Box (estimate)	\$30	5	TBD
TOTALS:	\$632	~35	

BASKET

Item	Cost =(w/o shipping)	Weight (lb)	Supplier
Basket	\$56	3	Memphis Net& Twine
TOTALS:	\$56	3	



Knotless Holding Box, 4' H x 4' W x 4' L (1001-4) Ace, 1/8" Sq.

★ ★ ★ ★ ☆

Rated 4.0 out of 5, based on 1 review

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Stock Number: NHB1-4

\$55.94

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ADD TO CART

DESCRIPTION

REVIEWS

Q&A

These polyester boxes have 4 sides and a bottom and are bordered with 500 lb. test nylon rope.

Should hold ~ 100 lb with a safety factor, since that is the max weight goal.

MOTOR/RC

Estimated Power Req: ~1 hp ----- We plan to use a trolling motor

Planned Tests:

- SolidWorks Computer Model
- Water test with plow & frame once constructed

Then decide: Convert vs. Buy to get RC control



Item	Cost =(w/o shipping)	Weight (lb)	Supplier
Trolling motor	\$400-\$700	25-50	TBD
RC components			TBD
Battery Pack			TBD
TOTALS:	\$400-\$700	25-50	

BASE WEIGHT DISCUSSION

